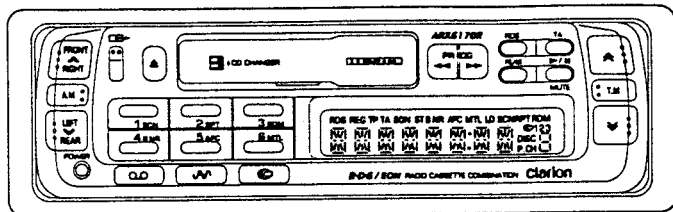


clarion Service Manual

Published by Service Dept.



FM/MW/LW RADIO CASSETTE COMBINATION WITH RDS-EON AND CD/MD CHANGER CONTROL

Model **ARX6170R**
(PE-9916E)

SPECIFICATIONS

RADIO SECTION

Tuning system :PLL synthesizer

Receiving frequencies

:FM 87.5MHz

MW 531 to 1,602kHz

LW 153 to 279 kHz

TAPE DECK SECTION

Playback system :Auto reversing,4-track,2-channel
stereo cassette tape playback
Monaural also possible

GENERAL

Power supply voltage

:DC 14V(10.8 to 15.6V allowable)

Negative ground

Power consumption

:Less than 10A

Speaker impedance

:4 Ω (4 to 8 Ω allowable)

Auto antenna rated current

:0.5A or less

Dimensions

:Width 178mm


Height 50mm

Depth 152mm

Weight

:1.3kg

※Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

※"DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

※For improvement purposes,specifications and design are subject to change without prior notice.

COMPONENTS

● PE-9916E-B

Main unit	—	1
Mounting bracket	300-9035-03	1
Outer escutcheon	370-5496-0L	1
Extension lead	854-3848-00	1
Parts bag	921-9184-00	1
Hook plate	330-8216-0L	2
Lead holder	335-0833-01	1
Spacer	345-3653-01	1
Screw	716-0726-01	1

FEATURES

- Auto reverse with auto azimuth adjustment
- Dolby B noise reduction
- EON-RDS receiver with PI,PS,AF,TP,TA and REG
- Radio monitor
- High power 4 x 30W max.
- Electronic controls(Volume/Bass/Treble/Balance/Fader)
- Triggered audio mute for cellular telephone
- Detachable control panel

■ ADJUSTMENT:

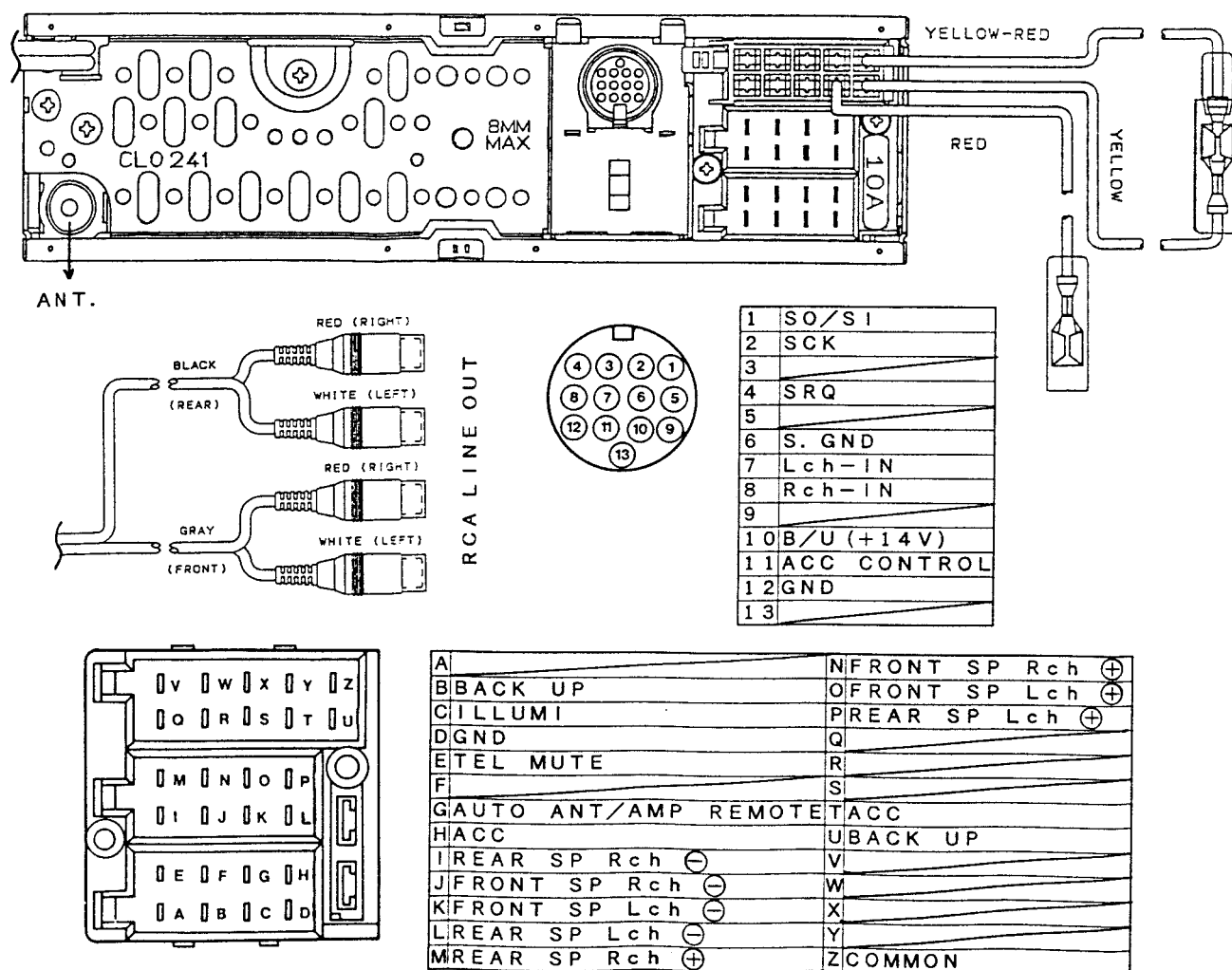
● FM SECTION

Item	Procedure
Stop sensitivity	1.Input the 98.1MHz/25dB(30%,400Hz)signal. 2.Adjust VR441 so that the voltage of TP1 is in the range 0V to 5.0V.
SASC	1.Input the 98.1MHz/65dB(30%,7kHz)signal. 2.Adjust the output level of the main volume to 0dBm(0.775V). 2.Adjust the outputs evenly to -3dB by VR439 when the SG is set to 30dB.
Separation	1.Input the 98.1kHz,connect the output of a stereo modulator to the external modulation terminal,and input a 65dB SG signal. 2.Set the stereo modulator to the L or R ch and adjust VR440 so that the maximum separation is obtained.

● DOLBY SECTION

Item	Procedure
Dolby level	1.Playback a Dolby level test tape(400Hz,200nWb/m),connect the milli-volt meter to TP2(L),TP3(R). 2.Adjust VR349(L),VR350(R) to be obtain an output of 300mV•1dB.(Dolby switch:OFF)

■ REAR VIEW AND CONNECTORS:



■ EXPLANATION OF IC's:

■ μPD78044AGF-084-3B9

052-3321-00

System controller

Outward From 80-pin plastic QFP

Terminal discription

Pin No.	Symbol	I/O	Function
1	E VOL CE	O	Chip enable signal output of electronic volume IC (CXA1946)
2	E VOL CLK	O	Clock output of electronic volume IC (CXA1946)
3	DOLBY	O	Repeats operation between H and L in tape mode when BNR key is pressed.
4	APC	O	H output H during FF/REW when tape mode APC is ON.
5	MTL	O	Repeats operation between H and L in tape mode when MTL key is pressed.
6	ACC CONT	O	ACC CONT signal output of C-BUS.
7	NC	-	Not in use.
8	VDD	-	+5V power supply voltage terminal
9	C-BUS SCK	O	Clock output of C-BUS
10	C-BUS SO	O	Output data of C-BUS
11	C-BUS SI	I	Input data of C-BUS
12	C-BUS SRQ	I	SRQ of C-BUS
13	PLL CE	O	Chip enable signal output of PLL IC (LC 72146M)
14	PLL CLK	O	Clock output of PLL IC (LC 72146M)
15	PLL DO	O	Output data of PLL IC (LC 72146M)
16	PLL DI	I	Input data of PLL IC (LC 72146M)
17	RESET	I	RESET signal input
18	LPF CONT.	O	Time constant switching terminal of LPF
19	NC	-	Not in use.
20	AVSS	-	Reference GND terminal of A/D converter.
21	AM SD	I	Station detection signal input during AM band auto tuning (SEEK, PS, AS) in radio mode.
22	ST IND	I	ST indicator lights in low level while receiving FM band station in radio mode.
23	FM SD	I	Station detection signal input during FM band auto tuning (SEEK, PS, AS) and tracking with RDS function in radio mode.
24	NC	-	Not in use.
25	S METER	I	Field strength signal of FM band station in radio mode. (used as A/D port)
26	NC	-	Not in use.
27	NC	-	Not in use.
28	REM CONT	I	Remote control data input with single wire voltage input (used as A/D port)
29	AVDD	-	Analog power supply terminal of A/D converter
30	AVref	-	Reference voltage input terminal of A/D converter
31	XT 1	-	Not in use.
32	XT 2	-	Not in use.
33	VSS	-	GND terminal.
34	X 1	-	Main system clock oscillator terminal connection terminal
35	X 2	-	Main system clock oscillator terminal connection terminal
36	FWD/REV	I	Cassette tape running direction. (Mute output with change of port in tape mode.)
37	BEEP	O	Pulse output of beep sound.
38	IF MUTE	O	Outputs during automatic tracking with RDS function.
39	RDS DATA	I	RDS data input from RDS decoder IC (SAA 8579).
40	LCD KEY REQ	I	Key request signal input from LCD driver (μ PD 16431).
41	LCD CLK	O	Clock output of LCD driver (μ PD 16431).
42	LCD DATA	I/O	Input/output data of LCD driver (μ PD 16431).
43	LCD STB	O	Strobe signal output of LCD driver (μ PD 16431).
44	POWER KEY	I	Key input of power key
45	RDS CLK	I	Synchronous clock from RDS decoder IC (SAA 6579).

Pin No.	Symbol	I/O	Function
46	X'tal Start	I	When power key is off and microcomputer is in HALT, release HALT according to change ACC DET status or detection of BAND key ON.
47	B/U DET	I	Detects connection of power in backup line. H: Disconnected. L: Connected.
48	IC	-	Connect to GND.
49	VOL A	I	Input of turning volume control (phase comparison)
50	VOL B	I	Input of turning volume control (phase comparison)
51	NC	-	Not in use.
52	VDD	-	+5V power supply voltage terminal
53	LCD OE	O	Output enable signal output of LCD driver (μ PD 16431)
54	BAND KEY	I	Key input terminal of band key in radio mode.
55	ACC DET	I	Detects power connection status of accessory line.
56	WILL1	O	Control output signal of W illumination.
57	WILL2	O	Control output signal of W illumination.
58	SLAVE ON	I	Slave status input of AUX
59	MASTER ON	O	Master status output of AUX
60	NC	-	Not in use.
61	PACK SW	I	Tape presence detection signal input in tape mechanism (TOM II M).
62	FF/REW	I	FF/REW status detection signal input of tape mechanism (TOM II M).
63	PHONE	I	Interruption signal input of car phone
64	NC	-	Not in use.
65	KI 3	I	Input of initially set diode matrix
66	KI 1	I	Input of initially set diode matrix
67	KI 1	I	Input of initially set diode matrix
68	NC	-	Not in use.
69	NC	-	Not in use.
70	NC	-	Not in use.
71	NC	-	Not in use.
72	NC	-	Not in use.
73	KO 4	O	Input of initially set diode matrix
74	KO 1	O	Input of initially set diode matrix
75	KO 1	O	Input of initially set diode matrix
76	KO 1	O	Input of initially set diode matrix
77	MOTOR	O	Motor control signal output of tape mechanism (TOM II M).
78	REMOTE	O	Status control signal output of POWER IC (HA13150A).
79	MUTE	O	Mute control signal output.
80	E VOL DO	O	Output data of electronic volume IC (CXA1946)

Key matrix table (initially set diode matrix)



KEY IN	KEY OUT	KO 1 (76 pin)	KO 2 (77 pin)	KO 3 (78 pin)	KO 4 (79 pin)
KI 1 (67 pin)	D-SW0	D-SW0	D-SW1	D-SW2	D-SW3
KI 2 (66 pin)	With/without LOUD-KEY	With/without LOUD-KEY	FF/REW display switching		
KI 3 (65 pin)					

□ : Momentary SW

□ : Diode SW

Diode SW

In the table below, "O" means that diode SW is OFF and "I" means that diode SW is ON.

SW name	Function															
D SW0 D SW1	Auto store initially set terminal for commercial item/OEM <table><tr><th>D SW0</th><th>D SW1</th><th>Specification</th></tr><tr><td>O</td><td>O</td><td>Commercial mode</td></tr><tr><td>O</td><td>I</td><td>Auto store initial setting : Both FM 1 and 2 buds</td></tr><tr><td>I</td><td>O</td><td>OEM mode</td></tr><tr><td>I</td><td>I</td><td>Auto store initial setting : FM2 only</td></tr></table>	D SW0	D SW1	Specification	O	O	Commercial mode	O	I	Auto store initial setting : Both FM 1 and 2 buds	I	O	OEM mode	I	I	Auto store initial setting : FM2 only
D SW0	D SW1	Specification														
O	O	Commercial mode														
O	I	Auto store initial setting : Both FM 1 and 2 buds														
I	O	OEM mode														
I	I	Auto store initial setting : FM2 only														
D SW2 D SW3	APC, DOLBY, MTL function selection terminal <table><tr><th>D SW2</th><th>D SW3</th><th>Function</th></tr><tr><td>O</td><td>O</td><td>Without APC, Without DOLBY, Without MTL</td></tr><tr><td>O</td><td>I</td><td>Without APC, Without DOLBY, With MTL</td></tr><tr><td>I</td><td>O</td><td>Without APC, With DOLBY, With MTL</td></tr><tr><td>I</td><td>I</td><td>With APC, With DOLBY, With MTL</td></tr></table>	D SW2	D SW3	Function	O	O	Without APC, Without DOLBY, Without MTL	O	I	Without APC, Without DOLBY, With MTL	I	O	Without APC, With DOLBY, With MTL	I	I	With APC, With DOLBY, With MTL
D SW2	D SW3	Function														
O	O	Without APC, Without DOLBY, Without MTL														
O	I	Without APC, Without DOLBY, With MTL														
I	O	Without APC, With DOLBY, With MTL														
I	I	With APC, With DOLBY, With MTL														
LOUD KEY	Loud key selection terminal O : Without LOUD KEY I : With LOUD KEY															
FF/REW	Display switching terminal during FF/REW O :  ,  Display of running direction I : FF/REW flashing															

■ PARTS LIST

◎MAIN PWB

REF No.	PART No.	DESSCRIPTION	REF No.	PART No.	DESSCRIPTION	REF No.	PART No.	DESSCRIPTION
C 103	172-1041-11	0.1uF	C 412	183-4763-11	6.3V47uF	IC 302	051-5004-00	CXA1946Q
C 104	172-1041-11	0.1uF	C 413	183-2253-62	50V2.2uF	IC 303	051-2004-00	HA13150A
C 105	183-1063-31	16V10uF	C 414	176-8201-00	82pF CH	IC 401	051-6201-00	LC72146M
C 108	183-1053-61	50V1uF	C 415	176-4701-00	47pF CH	IC 501	051-1819-00	SAA6579T
C 109	183-1063-31	16V10uF	C 416	178-1042-05	0.1uF	IC 502	051-0362-01	BA338
C 110	183-1073-21	10V100uF	C 417	178-3312-05	330pF	IC 503	051-0301-01	uPC1228H
C 205	178-1022-05	1000pF	C 419	178-1032-05	0.01uF	IC 504	051-0160-51	SN74LS07N
C 206	184-4773-12	6.3V470uF	C 420	178-1032-05	0.01uF	IC 505	052-3321-00	uPD78044AGF-084-3B9
C 301	178-6832-05	0.068uF	C 421	178-2222-05	2200pF	L 101	010-2046-36	220uH
C 302	178-1022-05	1000pF	C 422	183-1063-31	16V10uF	L 102	009-0666-0L	
C 304	178-3322-05	3300pF	C 423	183-1063-31	16V10uF	L 401	010-2003-04	
C 305	178-5632-05	0.056uF	C 424	178-5622-05	5600pF	L 402	010-2198-01	0.22uH
C 307	178-6832-05	0.068uF	C 425	178-5622-05	5600pF	L 404	010-2230-38	220uH
C 308	178-1022-05	1000pF	C 427	178-1012-05	100pF CH	L 406	010-2230-28	33uH
C 310	178-5622-05	5600pF	C 428	172-1531-11	0.015uF	Q 101	101-0624-0L	2SB624
C 311	178-5622-05	5600pF	C 429	172-8231-11	0.082uF	Q 102	102-2712-00	2SC2712
C 312	178-5622-05	5600pF	C 431	176-1501-00	15pF CH	Q 103	103-1504-00	2SD1504
C 313	178-5622-05	5600pF	C 432	176-1801-00	18pF CH	Q 104	103-1504-00	2SD1504
C 314	172-1041-11	0.1uF	C 433	183-4753-51	35V4.7uF	Q 105	103-0882-00	2SD882
C 315	172-1041-11	0.1uF	C 434	183-1053-61	50V1uF	Q 107	102-2712-00	2SC2712
C 316	172-1041-11	0.1uF	C 435	178-3332-05	0.033uF	Q 108	100-1162-00	2SA1162
C 317	172-1041-11	0.1uF	C 436	042-0452-01	10V220uF	Q 109	103-1055-00	2SD1055
C 318	172-1041-11	0.1uF	C 501	178-1022-05	1000pF	Q 110	103-0882-00	2SD882
C 319	172-1041-11	0.1uF	C 502	178-1022-05	1000pF	Q 111	102-2712-00	2SC2712
C 320	172-1041-11	0.1uF	C 503	183-1073-12	6.3V100uF	Q 112	101-0772-0L	2SB772
C 321	172-1041-11	0.1uF	C 504	178-2732-05	0.027uF	Q 113	102-2712-00	2SC2712
C 322	178-1042-05	0.1uF	C 505	183-1053-61	50V1uF	Q 114	125-0002-01	RN2401
C 323	183-1063-31	16V10uF	C 506	183-1053-61	50V1uF	Q 401	125-2004-03	RN1403
C 324	183-2243-61	50V0.22uF	C 507	178-2732-05	0.027uF	Q 402	103-1306-00	2SD1306
C 325	183-6843-61	50V0.68uF	C 508	183-1073-12	6.3V100uF	Q 404	103-1306-00	2SD1306
C 326	183-1063-31	16V10uF	C 509	183-4763-31	16V47uF	Q 405	102-2712-51	2SC2712G.L
C 327	183-4753-51	35V4.7uF	C 510	183-1053-61	50V1uF	Q 406	102-2712-51	2SC2712G.L
C 328	183-2243-61	50V0.22uF	C 511	183-1053-61	50V1uF	Q 407	125-2004-03	RN1403
C 329	183-2253-62	50V2.2uF	C 512	178-1032-05	0.01uF	Q 408	125-2004-03	RN1403
C 330	183-6843-61	50V0.68uF	C 513	178-1032-05	0.01uF	Q 409	100-1162-50	2SA1162Y.G
C 331	183-1073-21	10V100uF	C 514	183-3353-61	50V3.3uF	Q 410	101-0624-0L	2SB624
C 332	184-3373-11	6.3V330uF	C 515	172-4731-11	0.047uF	Q 411	103-1306-00	2SD1306
C 333	183-1063-31	16V10uF	C 516	183-2253-62	50V2.2uF	Q 501	102-2712-00	2SC2712
C 334	183-1063-31	16V10uF	C 517	183-1053-61	50V1uF	Q 502	102-2712-00	2SC2712
C 335	183-1063-31	16V10uF	C 518	183-1053-61	50V1uF	Q 503	101-0822-00	2SB822
C 336	183-1063-31	16V10uF	C 519	183-4753-51	35V4.7uF	Q 504	101-0822-00	2SB822
C 337	183-1063-31	16V10uF	C 520	183-2263-31	16V22uF	Q 505	102-2712-00	2SC2712
C 338	183-1063-31	16V10uF	C 600	183-4763-11	6.3V47uF	Q 506	102-2712-00	2SC2712
C 339	183-1063-31	16V10uF	C 601	178-1042-05	0.1uF	R 101	117-1031-10	1/10W 10kohm
C 340	183-1063-31	16V10uF	C 602	178-1042-05	0.1uF	R 102	117-2721-10	1/10W 2.7kohm
C 341	183-1066-21	10V10uF NP	D 101	001-0356-00	1SS184	R 103	117-4731-10	1/10W 47kohm
C 342	183-1066-21	10V10uF NP	D 103	001-0330-00	1SS119	R 104	117-2231-10	1/10W 22kohm
C 344	183-1066-21	10V10uF NP	D 104	001-0330-00	1SS119	R 105	117-5621-10	1/10W 5.6kohm
C 345	183-1066-21	10V10uF NP	D 106	001-0330-00	1SS119	R 106	117-1031-10	1/10W 10kohm
C 346	183-1066-21	10V10uF NP	D 107	001-0516-00	MA111	R 107	117-3321-10	1/10W 3.3kohm
C 348	183-1066-21	10V10uF NP	D 108	001-0356-00	1SS184	R 108	111-5611-91	1/4WS 560ohm
C 349	183-4753-51	35V4.7uF	D 111	001-0583-31	MA8160	R 111	117-6821-10	1/10W 6.8kohm
C 350	183-4753-51	35V4.7uF	D 113	001-0466-00	S5688B	R 112	117-1031-10	1/10W 10kohm
C 351	183-4753-51	35V4.7uF	D 114	001-0377-37	MA4068L	R 113	111-2221-91	1/4WS 2.2kohm
C 352	183-4753-51	35V4.7uF	D 117	001-0503-36	HZS7 A1L	R 114	117-4731-10	1/10W 47kohm
C 353	178-1042-05	0.1uF	D 118	001-0377-45	MA4082H	R 115	111-3901-91	1/4WS 390ohm
C 357	183-2253-62	50V2.2uF	D 119	001-0377-28	MA4051L	R 117	111-1031-91	1/4WS 10kohm
C 359	183-1553-62	50V1.5uF	D 120	001-0377-44	MA4082M	R 118	111-2211-91	1/4WS 220ohm
C 360	042-0447-00	16V2200uF	D 204	001-0516-00	MA111	R 119	117-6821-10	1/10W 6.8kohm
C 361	042-0447-00	16V2200uF	D 205	001-0516-00	MA111	R 120	117-2231-10	1/10W 22kohm
C 362	183-1063-31	16V10uF	D 206	001-0516-00	MA111	R 121	111-9111-91	1/4WS 910ohm
C 367	172-1041-11	0.1uF	D 207	001-0516-00	MA111	R 122	117-1031-10	1/10W 10kohm
C 368	178-2242-05	0.22uF	D 210	001-0659-00	SLP-181B-51	R 123	117-4731-10	1/10W 47kohm
C 369	178-2242-05	0.22uF	D 211	001-0516-00	MA111	R 124	117-2221-10	1/10W 2.2kohm
C 370	178-3322-05	3300pF	D 301	001-0516-00	MA111	R 125	117-4721-10	1/10W 4.7kohm
C 371	178-2242-05	0.22uF	D 302	001-0516-00	MA111	R 126	117-3331-10	1/10W 33kohm
C 372	178-2242-05	0.22uF	D 303	001-0516-00	MA111	R 127	114-2291-11	1W 2.2ohm
C 401	178-1022-05	1000pF	D 403	001-0377-46	MA4091L	R 130	111-1021-91	1/4WS 1kohm
C 402	178-1042-05	0.1uF	D 404	001-0516-00	MA111	R 131	111-2221-91	1/4WS 2.2kohm
C 403	178-1032-05	0.01uF	D 501	001-0516-00	MA111	R 205	117-1031-10	1/10W 10kohm
C 404	183-4763-31	16V47uF	D 502	001-0516-00	MA111	R 206	117-1031-10	1/10W 10kohm
C 407	183-3343-62	50V0.33uF	D 503	001-0516-00	MA111	R 207	117-1031-10	1/10W 10kohm
C 408	178-1032-05	0.01uF	D 504	001-0516-00	MA111	R 208	111-4711-91	1/4WS 470ohm
C 409	183-4763-31	16V47uF	IC 203	051-0869-00	MB3771P(-G)	R 209	117-1031-10	1/10W 10kohm
C 411	178-5612-05	560pF CH	IC 301	051-1349-00	HA12134A	R 210	117-1031-10	1/10W 10kohm

REF No.	PART No.	DESSCRIPTION	REF No.	PART No.	DESSCRIPTION	REF No.	PART No.	DESSCRIPTION
R 211	117-1031-10	1/10W 10kohm	R 325	117-6821-10	1/10W 6.8kohm	R 503	117-8201-10	1/10W 82ohm
R 212	117-4731-10	1/10W 47kohm	R 326	117-2291-10	1/10W 2.2ohm	R 504	117-1241-10	1/10W 120kohm
R 213	117-1041-10	1/10W 100kohm	R 327	117-2291-10	1/10W 2.2ohm	R 505	117-4721-10	1/10W 4.7kohm
R 215	111-1031-91	1/4WS 10kohm	R 328	117-2291-10	1/10W 2.2ohm	R 506	117-4721-10	1/10W 4.7kohm
R 216	111-3321-91	1/4WS 3.3kohm	R 329	117-2291-10	1/10W 2.2ohm	R 507	117-1241-10	1/10W 120kohm
R 217	117-1041-10	1/10W 100kohm	R 330	117-4711-10	1/10W 470ohm	R 508	117-8201-10	1/10W 82ohm
R 218	117-1041-10	1/10W 100kohm	R 333	117-1031-10	1/10W 10kohm	R 509	111-1031-91	1/4WS 10kohm
R 219	117-1041-10	1/10W 100kohm	R 334	117-6821-10	1/10W 6.8kohm	R 510	111-1031-91	1/4WS 10kohm
R 220	117-1031-10	1/10W 10kohm	R 335	117-2291-10	1/10W 2.2ohm	R 511	117-1041-10	1/10W 100kohm
R 221	117-1031-10	1/10W 10kohm	R 336	117-2291-10	1/10W 2.2ohm	R 512	117-1041-10	1/10W 100kohm
R 222	117-1041-10	1/10W 100kohm	R 337	117-2291-10	1/10W 2.2ohm	R 514	117-3321-10	1/10W 3.3kohm
R 223	117-4731-10	1/10W 47kohm	R 338	117-2291-10	1/10W 2.2ohm	R 515	117-3321-10	1/10W 3.3kohm
R 224	117-1241-10	1/10W 120kohm	R 351	117-4711-10	1/10W 470ohm	R 516	117-3321-10	1/10W 3.3kohm
R 225	111-2241-91	1/4WS 220kohm	R 352	111-5611-91	1/4WS 560ohm	R 517	117-1021-10	1/10W 1kohm
R 226	117-4721-10	1/10W 4.7kohm	R 401	117-2221-10	1/10W 2.2kohm	R 518	111-1031-91	1/4WS 10kohm
R 227	117-1041-10	1/10W 100kohm	R 402	117-6831-10	1/10W 68kohm	R 519	117-1021-10	1/10W 1kohm
R 228	117-1041-10	1/10W 100kohm	R 403	117-1031-10	1/10W 10kohm	R 520	117-1031-10	1/10W 10kohm
R 229	117-1031-10	1/10W 10kohm	R 405	117-6831-10	1/10W 68kohm	R 521	117-1031-10	1/10W 10kohm
R 230	117-1031-10	1/10W 10kohm	R 406	117-1541-10	1/10W 150kohm	R 522	117-1031-10	1/10W 10kohm
R 231	117-1031-10	1/10W 10kohm	R 407	117-1241-10	1/10W 120kohm	R 523	111-9111-91	1/4WS 910ohm
R 232	117-1031-10	1/10W 10kohm	R 411	117-4711-10	1/10W 470ohm	R 524	111-9111-91	1/4WS 910ohm
R 233	111-1041-91	1/4WS 100kohm	R 413	117-1031-10	1/10W 10kohm	R 525	111-1021-91	1/4WS 1kohm
R 234	111-1041-91	1/4WS 100kohm	R 414	117-1031-10	1/10W 10kohm	R 526	117-1031-10	1/10W 10kohm
R 235	117-1041-10	1/10W 100kohm	R 415	117-3321-10	1/10W 3.3kohm	R 527	111-2721-91	1/4WS 2.7kohm
R 236	117-1041-10	1/10W 100kohm	R 416	117-3321-10	1/10W 3.3kohm	R 528	111-3311-91	1/4WS 330ohm
R 237	111-2221-91	1/4WS 2.2kohm	R 417	117-2221-10	1/10W 2.2kohm	R 529	117-4731-10	1/10W 47kohm
R 301	117-1831-10	1/10W 18kohm	R 418	117-3331-10	1/10W 33kohm	R 530	117-1541-10	1/10W 150kohm
R 302	117-2221-10	1/10W 2.2kohm	R 419	117-2221-10	1/10W 2.2kohm	R 531	117-1041-10	1/10W 100kohm
R 303	117-4731-10	1/10W 47kohm	R 423	117-1031-10	1/10W 10kohm	R 532	117-3931-10	1/10W 39kohm
R 304	117-1031-10	1/10W 10kohm	R 424	117-1031-10	1/10W 10kohm	R 533	111-1001-91	1/4WS 10ohm
R 305	117-1031-10	1/10W 10kohm	R 425	117-1021-10	1/10W 1kohm	R 534	111-1001-91	1/4WS 10ohm
R 306	117-4731-10	1/10W 47kohm	R 426	117-1021-10	1/10W 1kohm	R 535	117-1021-10	1/10W 1kohm
R 307	117-6821-10	1/10W 6.8kohm	R 427	117-6821-10	1/10W 6.8kohm	R 536	111-1031-91	1/4WS 10kohm
R 308	117-1031-10	1/10W 10kohm	R 428	117-1021-10	1/10W 1kohm	R 537	117-1021-10	1/10W 1kohm
R 309	117-4721-10	1/10W 4.7kohm	R 429	117-1021-10	1/10W 1kohm	R 538	117-1031-10	1/10W 10kohm
R 310	117-2221-10	1/10W 2.2kohm	R 430	111-5611-81	1/2WS 560ohm	R 539	111-1031-91	1/4WS 10kohm
R 311	117-1021-10	1/10W 1kohm	R 431	117-4721-10	1/10W 4.7kohm	R 540	117-1021-10	1/10W 1kohm
R 312	117-1021-10	1/10W 1kohm	R 432	117-2712-10	1/10W 270ohm	R 541	117-1031-10	1/10W 10kohm
R 313	117-1021-10	1/10W 1kohm	R 433	111-2221-91	1/4WS 2.2kohm	R 542	111-5611-91	1/4WS 560ohm
R 314	117-2221-10	1/10W 2.2kohm	R 434	117-2221-10	1/10W 2.2kohm	R 544	117-3321-10	1/10W 3.3kohm
R 315	117-4721-10	1/10W 4.7kohm	R 435	117-2221-10	1/10W 2.2kohm	R 600	117-1041-10	1/10W 100kohm
R 316	117-1031-10	1/10W 10kohm	R 436	117-2221-10	1/10W 2.2kohm	SUP 101	060-0122-10	DSP-201M-S00B
R 317	117-6821-10	1/10W 6.8kohm	R 437	117-4721-10	1/10W 4.7kohm	VR 349	012-3808-06	10kohm
R 318	117-1021-10	1/10W 1kohm	R 438	117-1021-10	1/10W 1kohm	VR 350	012-3808-06	10kohm
R 319	117-1021-10	1/10W 1kohm	R 443	117-5651-10	1/10W 5.6Mohm	VR 439	012-3808-11	220kohm
R 320	117-1021-10	1/10W 1kohm	R 444	117-1021-10	1/10W 1kohm	VR 440	012-3808-06	10kohm
R 321	117-1021-10	1/10W 1kohm	R 445	117-1021-10	1/10W 1kohm	VR 441	012-3808-11	220kohm
R 322	117-6821-10	1/10W 6.8kohm	R 446	117-1021-10	1/10W 1kohm	X 401	061-3013-00	4.33MHz
R 323	117-6821-10	1/10W 6.8kohm	R 501	117-3331-10	1/10W 33kohm	X 402	061-1066-00	7.2MHz
R 324	117-6821-10	1/10W 6.8kohm	R 502	117-3321-10	1/10W 3.3kohm	X 901	060-0130-50	

◎SW PWB (Escutcheon)

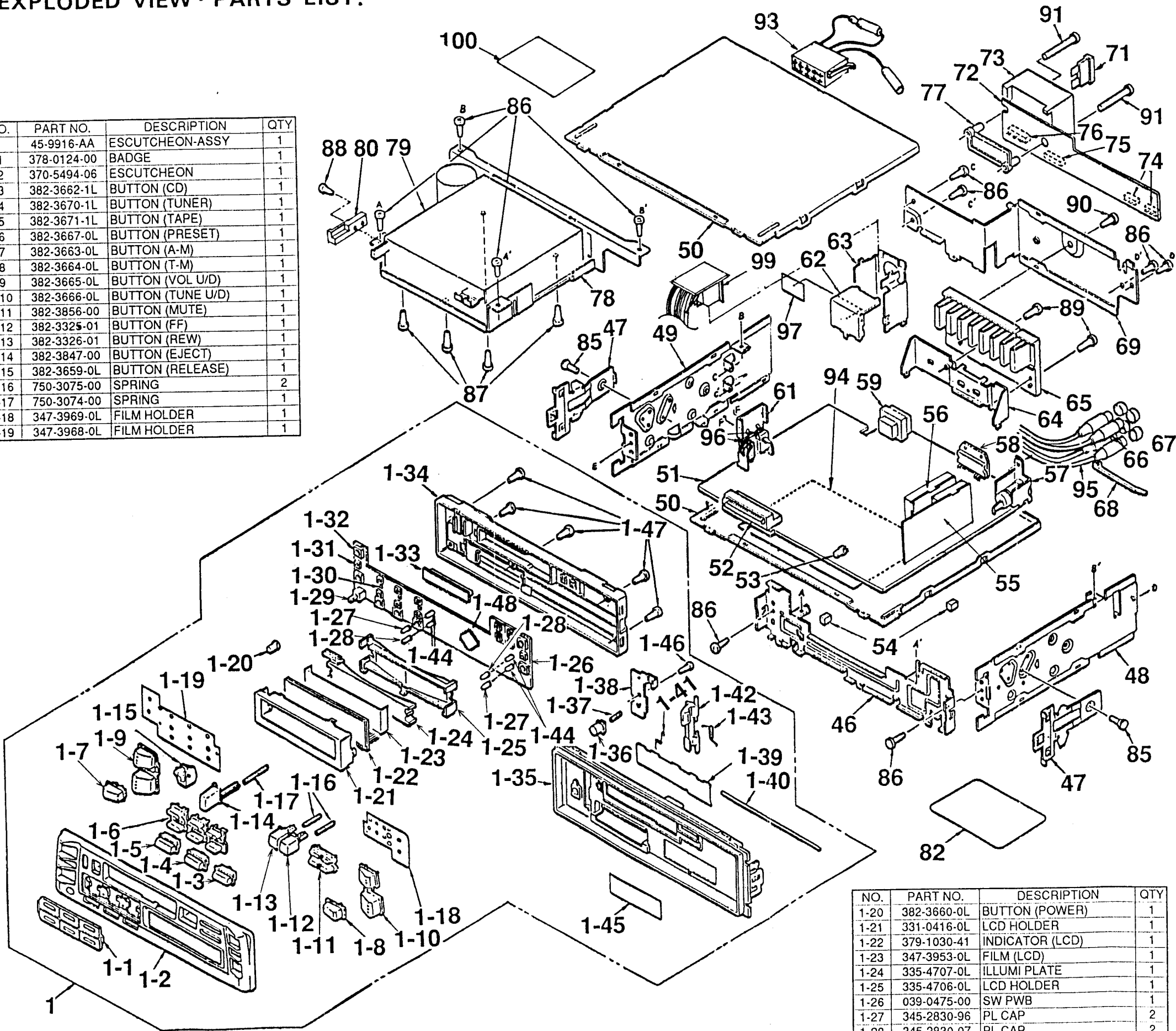
REF No.	PART No.	DESSCRIPTION	REF No.	PART No.	DESSCRIPTION	REF No.	PART No.	DESSCRIPTION
C 1	043-1601-10	16V0.1uF	R 1	117-1031-10	1/10W 10kohm	R 17	117-3311-10	1/10W 330ohm
C 2	043-1601-10	16V0.1uF	R 2	117-1041-10	1/10W 100kohm	R 20	117-3311-10	1/10W 330ohm
D 1	001-0593-01	CL-155-Y/PG-D	R 3	117-1031-10	1/10W 10kohm	R 21	117-3311-10	1/10W 330ohm
D 2	001-0593-01	CL-155-Y/PG-D	R 10	117-3311-10	1/10W 330ohm	R 22	117-2711-10	1/10W 270ohm
D 3	001-0593-01	CL-155-Y/PG-D	R 11	117-3311-10	1/10W 330ohm	R 23	117-2711-10	1/10W 270ohm
D 4	001-0644-00	MA113	R 12	117-2711-10	1/10W 270ohm	R 24	117-2711-10	1/10W 270ohm
D 5	001-0644-00	MA113	R 13	117-2711-10	1/10W 270ohm	R 25	117-2711-10	1/10W 270ohm
D 7	001-0525-00	IMN10	R 14	117-2711-10	1/10W 270ohm	R 26	117-3311-10	1/10W 330ohm
D 8	001-0525-00	IMN10	R 15	117-2711-10	1/10W 270ohm	R 27	117-3311-10	1/10W 330ohm
IC 1	051-6001-01	uPD16431AGC-7ET	R 16	117-3311-10	1/10W 330ohm			

◎ISO PWB

REF No.	PART No.	DESSCRIPTION	REF No.	PART No.	DESSCRIPTION	REF No.	PART No.	DESSCRIPTION
C 363	183-1053-62	50V1uF	F 101	060-0057-06	10A	R 343	117-2721-10	1/10W 2.7kohm
C 364	183-1053-62	50V1uF	R 339	117-5611-10	1/10W 560ohm	R 344	117-2721-10	1/10W 2.7kohm
C 365	183-1053-62	50V1uF	R 340	117-5611-10	1/10W 560ohm	R 345	117-2721-10	1/10W 2.7kohm
C 366	183-1053-62	50V1uF	R 341	117-5611-10	1/10W 560ohm	R 346	117-2721-10	1/10W 2.7kohm
D 112	001-0188-01	1S1885A	R 342	117-5611-10	1/10W 560ohm			

EXPLODED VIEW • PARTS LIST:

NO.	PART NO.	DESCRIPTION	QTY
1	45-9916-AA	ESCUTCHEON-ASSY	1
1-1	378-0124-00	BADGE	1
1-2	370-5494-06	ESCUTCHEON	1
1-3	382-3662-1L	BUTTON (CD)	1
1-4	382-3670-1L	BUTTON (TUNER)	1
1-5	382-3671-1L	BUTTON (TAPE)	1
1-6	382-3667-0L	BUTTON (PRESET)	1
1-7	382-3663-0L	BUTTON (A-M)	1
1-8	382-3664-0L	BUTTON (T-M)	1
1-9	382-3665-0L	BUTTON (VOL U/D)	1
1-10	382-3666-0L	BUTTON (TUNE U/D)	1
1-11	382-3856-00	BUTTON (MUTE)	1
1-12	382-3325-01	BUTTON (FF)	1
1-13	382-3326-01	BUTTON (REW)	1
1-14	382-3847-00	BUTTON (EJECT)	1
1-15	382-3659-0L	BUTTON (RELEASE)	1
1-16	750-3075-00	SPRING	2
1-17	750-3074-00	SPRING	1
1-18	347-3969-0L	FILM HOLDER	1
1-19	347-3968-0L	FILM HOLDER	1

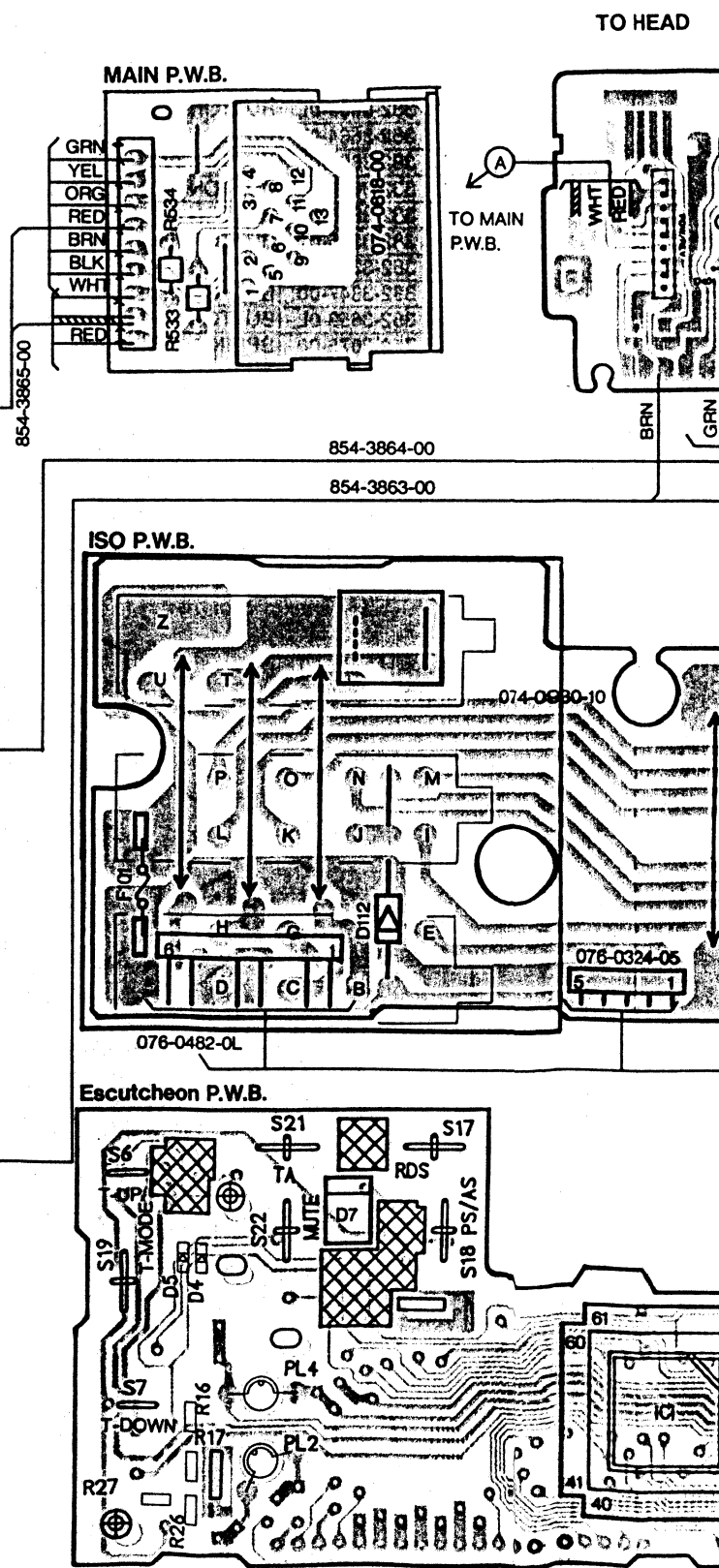
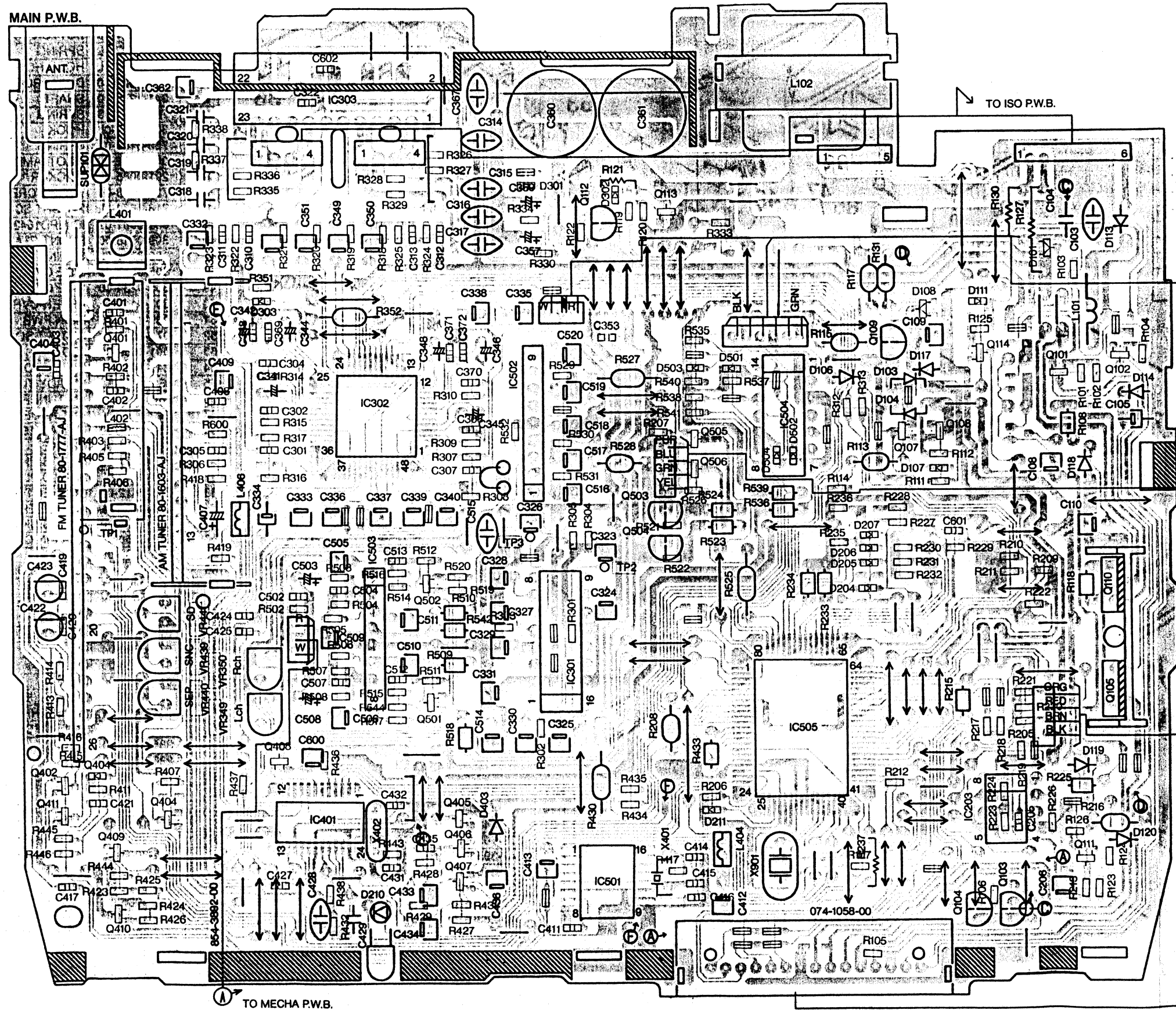


NO.	PART NO.	DESCRIPTION	QTY
1-20	382-3660-0L	BUTTON (POWER)	1
1-21	331-0416-0L	LCD HOLDER	1
1-22	379-1030-41	INDICATOR (LCD)	1
1-23	347-3953-0L	FILM (LCD)	1
1-24	335-4707-0L	ILLUMI PLATE	1
1-25	335-4706-0L	LCD HOLDER	1
1-26	039-0475-00	SW PWB	1
1-27	345-2830-96	PL CAP	2
1-28	345-2830-07	PL CAP	2
1-29	013-3849-00	SWITCH (POWER)	1
1-30	001-0593-01	LED	3

NO.	PART NO.	DESCRIPTION	QTY
1-31	013-3978-00	SWITCH	12
1-32	013-3977-10	SWITCH	7
1-33	076-0481-00	PLUG (DCP)	1
1-34	335-4704-00	REAR COVER	1
1-35	370-5495-00	ESCUTCHEON	1
1-36	382-3661-0L	BUTTON	1
1-37	750-3107-0L	SPRING	1
1-38	331-0417-0L	HOOK HOLDER	1
1-39	320-0521-10	DUSTPROOF-CVR	1
1-40	341-1278-00	SHAFT	1
1-41	750-2530-03	SPRING	1
1-42	335-4705-0L	HOOK	1
1-43	750-3106-0L	SPRING	1
1-44	017-9002-00	PILOT LAMP	4
1-45	291-0065-0L	STICKER	1
1-46	716-0778-00	WAVE SCREW	1
1-47	716-1674-0L	P-TIGHT SCREW	5
1-48	051-6001-01	IC (uPD1643A)	1
46	309-0648-00	FRONT-PLATE	1
47	750-2796-0L	SPRING	2
48	305-0235-00	SIDE CVR (R)	1
49	305-0234-00	SIDE CVR (L)	1
50	303-0441-0L	UPPER-CVR	2
51	039-0473-00	MAIN PWB	1
52	074-1058-00	OUTLET SOCKET	1
53	001-0659-00	LED	1
54	345-7495-0L	INSULATOR	1
55	80-1777-AJ	FM RDS TUNER	1
56	80-1603-AJ	AM TUNER	1
57	092-0668-0L	ANT-RECEPTACLE	1
58	051-2004-00	IC (HA13150A)	1
59	009-0666-0L	CHOKE	1
61	313-1577-0L	HEAT SINK	1
62	331-0413-0L	SHIELD PLATE	1
63	331-0412-0L	CONNECTOR-BRKT	1
64	331-0411-0L	IC HOLDER	1
65	313-1576-00	HEAT SINK	1
66	855-5350-0L	RCA PIN CORD	1
67	345-3799-0L	CAP	4
68	335-0833-01	LEAD HOLDER	1
69	307-0488-01	REAR-CVR	1
71	060-0057-56	AUTO FUSE (10A)	1
72	039-0474-00	ISO PWB	1
73	074-0930-10	ISO CONNECTOR	1
74	076-0390-04	PLUG (4P)	2
75	076-0324-05	PLUG (5P)	1
76	076-0482-0L	PLUG	1
77	335-4708-0L	SPACER(ISO)	1
78	331-0410-01	MECH-BRKT	1
79	930-0725-81	TAPE-MECHANISM	1
80	335-4822-00	SPACER	1
82	286-8382-00	SETPLATE	1
85	714-5008-41	MACHINE SCREW	2
86	731-3006-80	TAPTIGHT	10
87	714-3004-81	MACHINE SCREW	4
88	716-1619-00	SCREW	1
89	731-3008-80	TAPTIGHT	2
90	702-3008-81	TAP SCREW	1
91	714-3025-11	MACHINE SCREW	2
94	347-3996-0L	INSULATOR	1
95	855-5350-03	EXTENSION LEAD	1
96	347-4010-0L	INSULATOR	2
97	347-4001-0L	INSULATOR	1
99	074-0818-00	OUTLET SOCKET (13PIN)	1
100	290-6328-00	LABEL	1

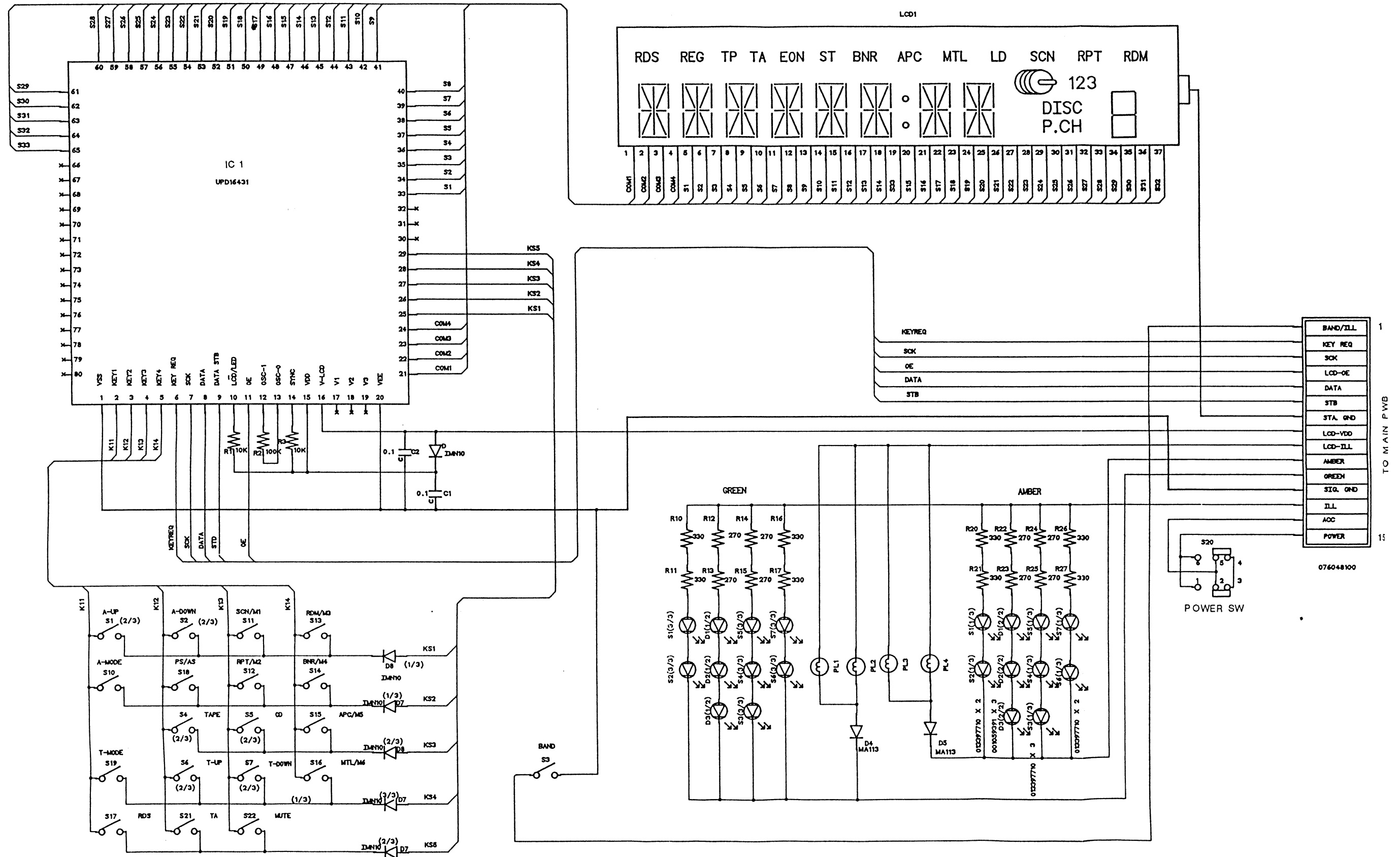
■ PRINTED WIRING BOARD:

Q	402 411	401 409 410		408			502	405 406 407	502	301	112	113 503 504	505 506		109 107	108	114 104	103	101	111	102 110 105
IC					303 401	302 503					501			504 505				203			

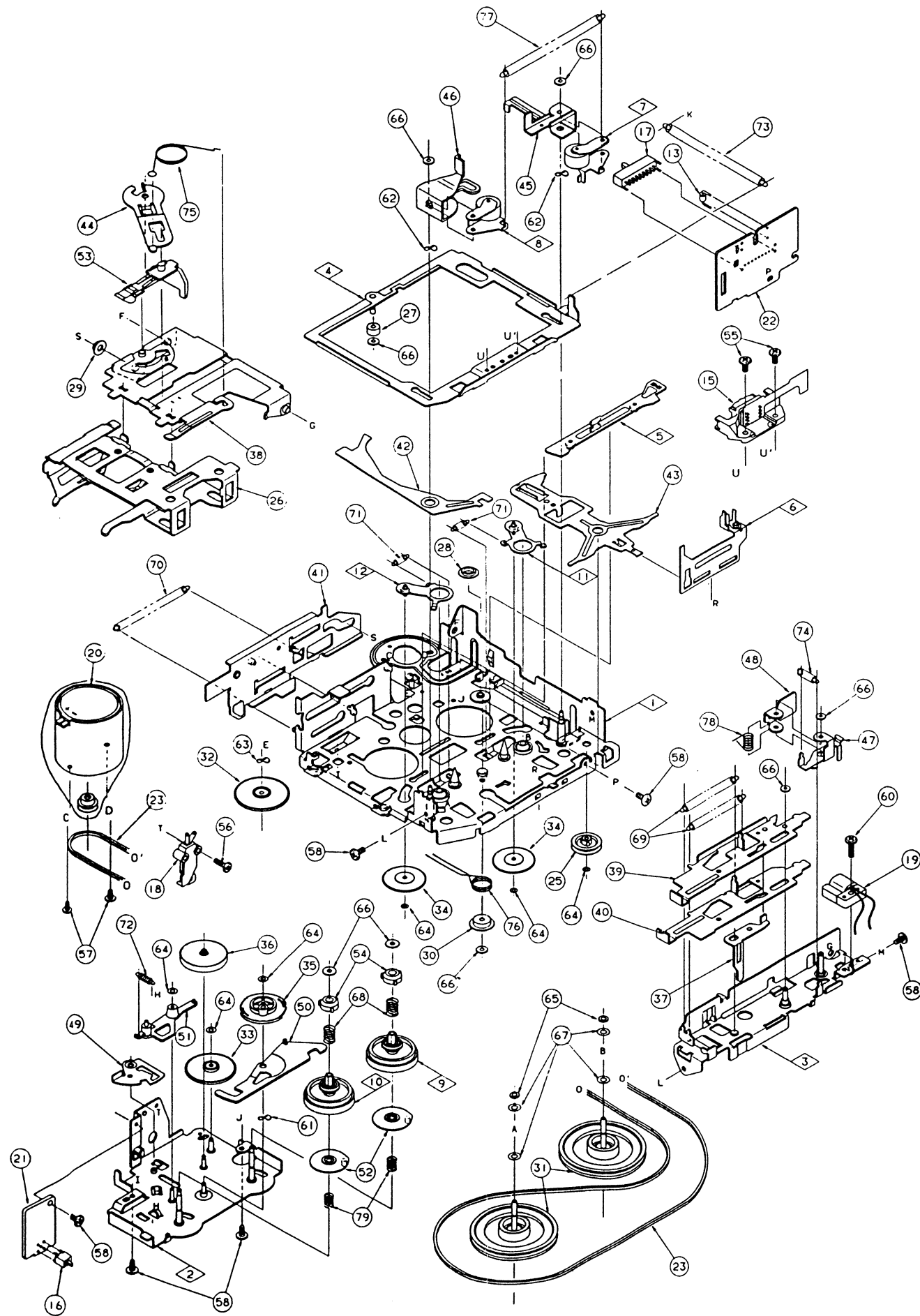


■CIRCUIT DIAGRAM: 1/2

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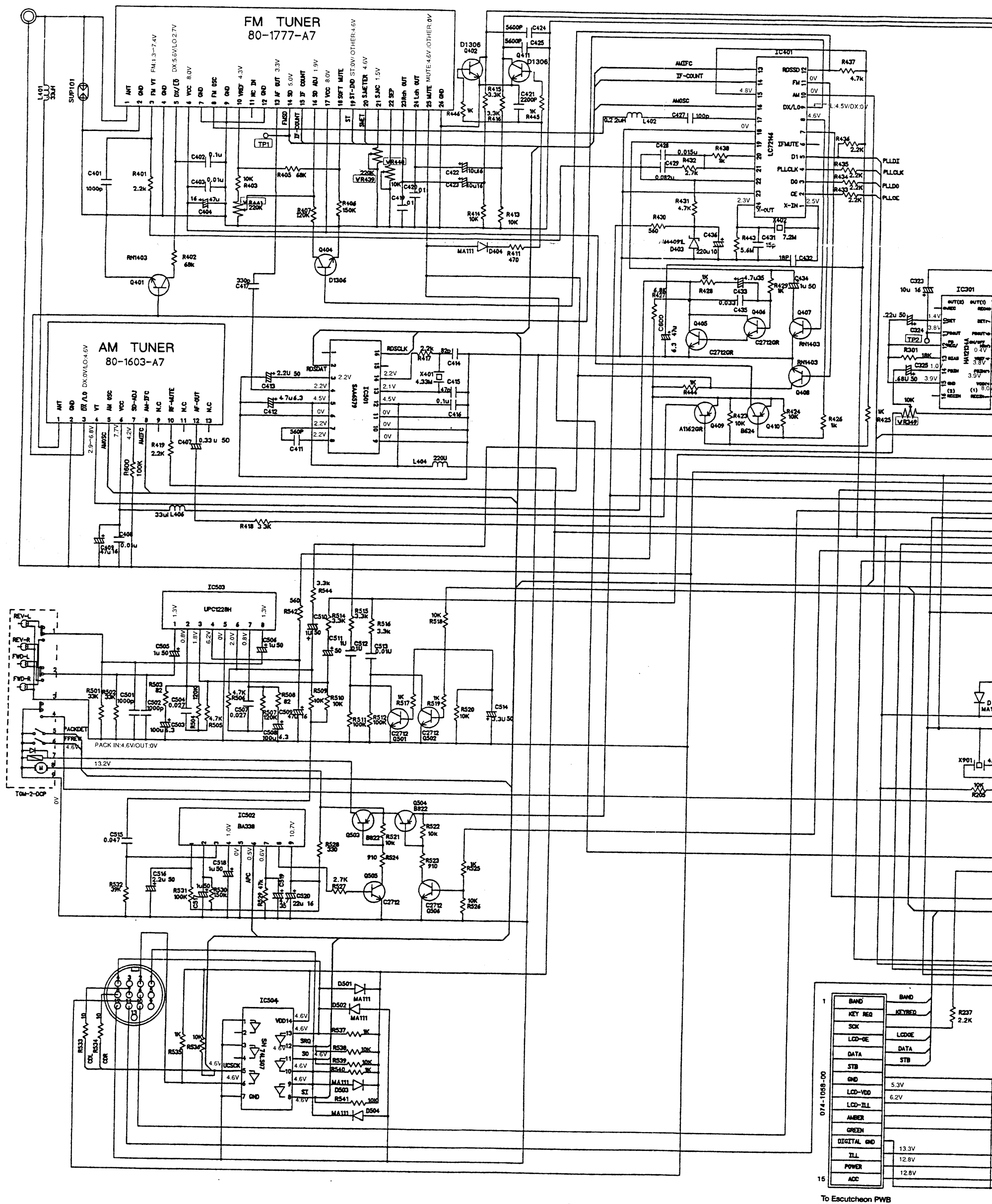


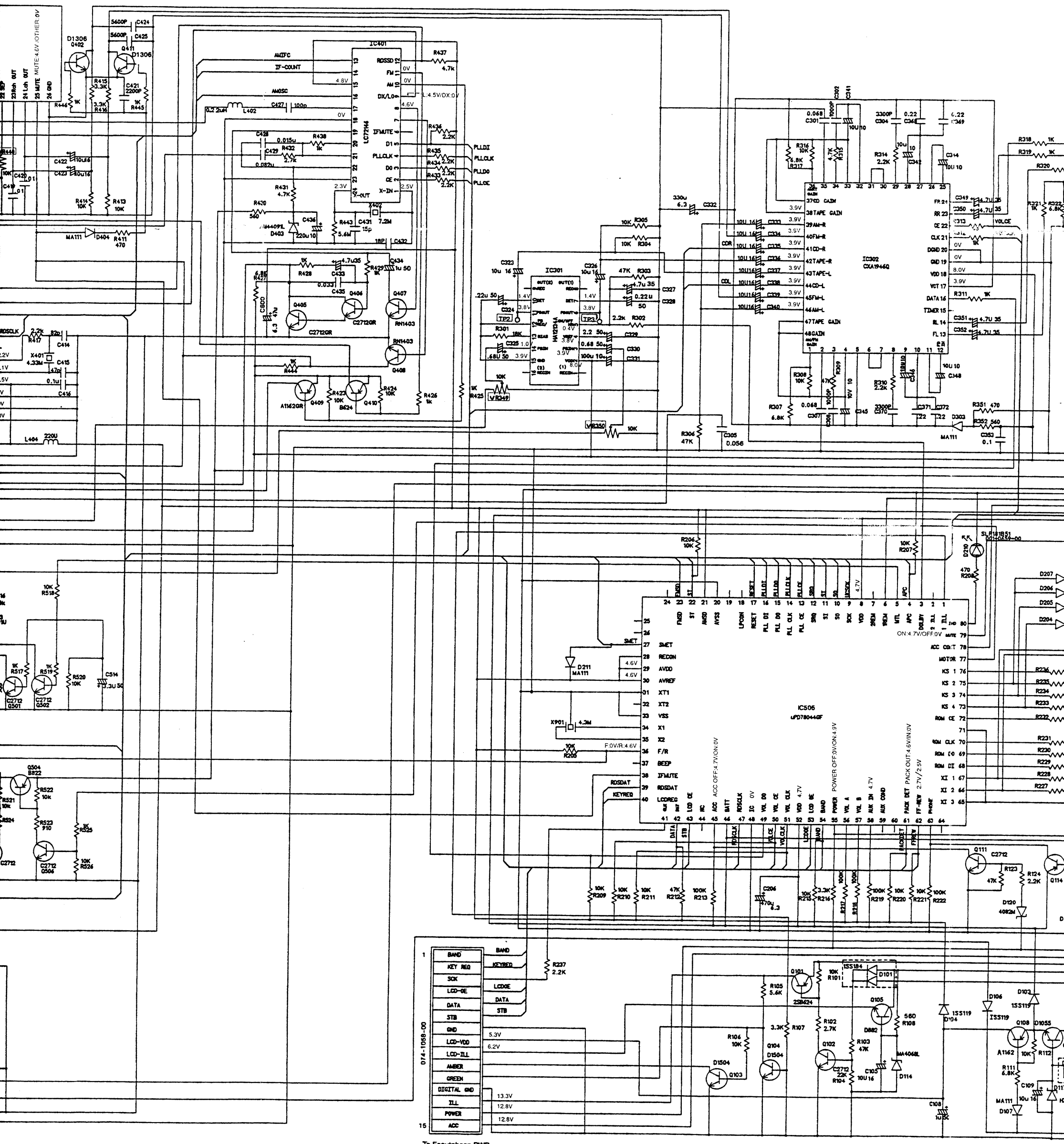
■EXPLODED VIEW·PARTS LIST: Tape mecha·section
 ©930-0725-81 (TOM₂-DMA)



REF NO.	PART NO.	DESCRIPTION	QTY	REF NO.	PART NO.	DESCRIPTION	QTY
1	960-4180-05	DECK ASSY	1	41	630-2498-10	EJECT LEVER-C	1
2	960-4181-05	BOTTOM ASSY	1	42	630-2499-01	CHANGE LEVER	1
3	960-4182-03	FRAME ASSY	1	43	630-2501-02	CHANGE PLATE	1
4	960-4403-00	HEAD ASSY-AZ	1	44	630-2502-05	SWING ARM	1
5	960-4186-02	FF / REW -P-ASSY	1	45	630-2505-02	FF / REW LINK	1
6	960-4187-01	HEAD SW ASSY	1	46	630-2506-04	RELEASE LINK	1
7	960-4188-03	ROLLER ASSY-F	1	47	630-2507-04	LOCK LINK	1
8	960-4189-03	ROLLER ASSY-R	1	48	630-2509-02	KICK LINK	1
9	960-4190-07	REEL ASSY-F	1	49	630-2529-01	MUTE PLATE	1
10	960-4191-07	REEL ASSY-R	1	50	631-1958-05	CHECK LINK	1
11	960-4192-02	IDLER ASSY-F	1	51	631-1959-01	CHANGE LINK	1
12	960-4193-02	IDLER ASSY-R	1	52	631-1961-03	CHECK PLATE	2
13	001-0466-00	DIODE (S5688B)	1	53	631-1963-04	PACK STOPPER	1
15	011-0324-00	HEAD	1	54	631-1967-00	SLIDE BUSH	2
16	013-3906-00	SWITCH	1	55	714-2005-81	MACHINE SCREW	2
17	013-3922-00	SWITCH (SLIDE)	1	56	714-2008-81	MACHINE SCREW	1
18	013-3924-00	SWITCH	1	57	716-0484-02	SCREW	2
19	015-0246-02	PLUNGER	1	58	716-1471-00	S-TIGHT 2-3	6
20	SMA-141-100	MOTOR-ASSY	1	60	716-1608-00	S-TIGHT 2-8	1
21	099-9126-00	P.W.B.	1	61	745-0752-00	PLATE SPRING	1
22	099-9669-00	P.W.B.	1	62	745-0756-00	SPRING WASHER	2
23	602-0115-00	BELT	1	63	746-0712-03	WASHER	1
25	604-0042-01	TENSION PULLEY	1	64	746-0724-00	WASHER	6
26	606-0100-05	PACK GUIDE	1	65	746-0762-00	WASHER	2
27	610-0333-01	HEAD POLLER A	1	66	746-0768-00	WASHER	8
28	610-0334-01	HEAD ROLLER B	1	67	746-0839-00	CAPSTAN WASHER	4
29	610-0335-02	EJECT ROLLER	1	68	750-2564-01	SLIDE SPRING	2
30	610-0336-01	SP ROLLER	1	69	750-2904-02	FF / REW-SPRING	2
31	611-0094-00	FLYWHEEL	2	70	750-2905-02	EJECT SPRING	1
32	613-0272-10	GEAR A	1	71	750-2906-00	IDLER SPRING	2
33	613-0273-02	GEAR B	1	72	750-2907-03	CHANGE-L-SPRING	1
34	613-0274-02	IDLER GEAR	2	73	750-2908-02	HEAD SPRING	1
35	613-0275-03	CHANGE GEAR	1	74	750-2909-04	LOCK SPRING	1
36	613-0277-02	CHECK GEAR	1	75	750-2910-03	SLOT SPRING	1
37	630-2488-02	SELECT PLATE	1	76	750-2911-01	HOLDING SPRING	1
38	630-2494-07	GUIDE ARM	1	77	750-2912-01	PINCH SPRING	1
39	630-2715-00	FF-LEVER-DCP	1	78	750-2913-01	KICK SPRING	1
40	630-2716-00	REW-LEVER-DCP	1	79	750-2919-03	CHECK SPRING-R	2

CIRCUIT DIAGRAM: 2/2
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